

## Claudin-1 (D5H1D) XP® Rabbit mAb



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## For Research Use Only. Not for Use in Diagnostic Procedures.

<b>Applications:</b> W, IP, IHC-P	<b>Reactivity:</b> H Dg	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 20	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #O95832	Entrez-Gene Id: 9076	
Product Usage Information		Application Western Blotting Immunoprecipitation		<b>Dilution</b> 1:1000 1:200			
Storage		Immunohistochemistry (Paraffin) 1:125 - 1:500  Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.					
Specificity/Sensitivity		Claudin-1 (D5H1D) XP <sup>®</sup> Rabbit mAb recognizes endogenous levels of total claudin-1 protein.					
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human claudin-1 protein.					
Background		Tight junctions, or zonula occludens, form a continuous barrier to fluids across the epithelium and endothelium. They function in regulation of paracellular permeability and in the maintenance of cell polarity, blocking the movement of transmembrane proteins between the apical and the basolateral cell surfaces. Tight junctions are composed of claudin and occludin proteins, which join the junctions to the cytoskeleton (1,2). The claudin family is composed of 23 integral membrane proteins, and their expression, which varies among tissue types, may determine both the strength and properties of the epithelial barrier. Alteration in claudin protein expression pattern is associated with several types of cancer (2,3). Claudin-1 is expressed primarily in keratinocytes (4) and normal mammary epithelial cells, but is absent or reduced in breast carcinomas and breast cancer cell lines (5,6).					
Background Re	eferences	1. Shin, K. et al. (2006) <i>Annu Rev Cell Dev Biol</i> 22, 207-35. 2. Oliveira, S.S. and Morgado-Díaz, J.A. (2007) <i>Cell Mol Life Sci</i> 64, 17-28. 3. Hewitt, K.J. et al. (2006) <i>BMC Cancer</i> 6, 186. 4. Brandner, J.M. et al. (2002) <i>Eur J Cell Biol</i> 81, 253-63. 5. Krämer, F. et al. (2000) <i>Hum Genet</i> 107, 249-56. 6. Swisshelm, K. et al. (1999) <i>Gene</i> 226, 285-95.					

Species Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).		
species Redelivity	species reactivity is accommised by testing in account one approved application (e.g., western story,		
Western Blot Buffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.		
Applications Key	W: Western Blotting IP: Immunoprecipitation IHC-P: Immunohistochemistry (Paraffin)		
Cross-Reactivity Key	H: Human Dg: Dog		
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